Creative thinking and Problem-solving

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Business enterprises are under constant pressure to outperform their competitors and meet their shareholders' expectations. In order to maintain their market position, business enterprises need to find effective and creative solutions to problems. Entrepreneurs have to use advanced tools and techniques to help them to be creative.

Overview

TOPIC	CONTENT	CONTENT DETAILS FOR TEACHING, LEARNING AND ASSESSMENT PURPOSES
	 Distinction between problem solving and decision making. 	Distinguish between problem-solving and decision-making.
ත	Steps in problem-solving	Name/Outline/Apply the steps in problem- solving to scenarios/case studies.
Vi N	 Apply creative thinking skills to solve complex business problems. 	Identify and address challenges from given scenarios by applying advanced problem-
n-sc	 Benefits/advantages of creative thinking in the workplace. 	solving techniques.Apply creative thinking skills to solve complex
bler	 Impact (positives/negatives) of 	business problems.
Pro	creative thinking/problem solving techniques.	 Explain the benefits/advantages of creative thinking in the workplace.
ng and	 Application of creative thinking- /problem solving techniques. 	 Evaluate the impact (positives/negatives) of creative thinking/problem-solving techniques, e.g. Delphi technique Force-field analysis
Creative thinking and Problem-solving	 Ways for businesses to create an environment that promotes creative thinking. 	 Brainstorming Mind mapping Nominal group technique SCAMPER Forced combination Empty chair
Cre		Explain how businesses can apply the above creative-thinking/problem-solving techniques.
5.		Suggest/Recommend ways for businesses to create an environment that promotes creative thinking.

4.1 Key concepts

These definitions will help you understand the meaning of key Business Studies concepts that are used in this chapter

Term	Definition		
Creative	-To be original, inventive or resourceful		
Generate	-To produce or create		
Creativity/ Innovative	-Ideas featuring new and original methods.		
Creative thinking	-The ability to think of original, varied new ideas or new approaches		
Decision-making	-A judgement after thinking		
Problem	-Experiencing uncertainty or difficulty in achieving what we want to achieve.		
Problem-solving	-Gathering facts that includes problem findings and problem shaping		
Problem-solving techniques	-Are systematic procedure, formula or routine by which problems can be solved		
Brainstorming	-Generate new ideas around a specific area of interest and attempts to find a solution for a specific problem.as a group		
Delphi Technique	-A group communication process to deal with a complex problem by panel of experts.'		
Force-field Analysis	-Factors (forces) that influence a situation, and forces that are either driving movement toward a goal (helping forces) or blocking movement toward a goal (hindering forces).		
Empty-chair Technique	-The actual acting and movement which helps the client to get in touch with deeper feelings and develop a stronger ability to cope with the daily living situations and difficulties		
Nominal Group Technique	-A quick decision making method by a vote, whereby everyone's opinions taken into account		
Forced combination	-Break down and analyse a situation, then find a solution/s that best solves identified aspects of the problem or design situation.		
SCAMPER Technique	-The technique is based on the notion that everything new is a modification of something that already exists. It used to spark creativity and help overcome challenges.		

4.2 Problem-solving and Decision-making

4.2.1 Description between problem-solving and decision-making

Decision-making	Problem-solving
Making a choice between alternatives which are usually	Finding solutions to problems and which are usually not obvious
obvious	

Do you know the distinction between problem-solving and decision-making?



Activity

Distinguish between problem solving and decision making.

Answer to activity 1

swer to activity i				
Problem-Solving	Decision-Making			
Problems can be solved by a group/team ✓	Decision making often done by member of			
or an individual team member ✓	management – ✓ becomes authoritarian ✓			
Alternative solutions are generated, ✓	Various alternatives are considered ✓ before			
identified and critically evaluated ✓	deciding on the best one ✓			
Process of analysing a situation ✓ to identify	It is part of the problem solving cycle ✓ as			
strategies to bring about change ✓	decisions need to be taken in each step ✓			
Sub max (2)	Sub max (2)			

[4]



4.2.2 Steps in problem-solving

- Identify the problem.
- Define the problem.
- Identify alternative possible solutions
- Evaluate alternative solutions.
- Select/choose the best alternative.
- Develop/formulate an action plan/strategy.
- Implement the suggested solution/action plan.
- Monitor the implementation of the action plan.
- Evaluate the chosen solution to the problem.
- Take corrective measures.



Activity

Identify the problem-solving technique that is represented by EACH statement below.

- a) Employees are requested to sit in groups and suggest ideas on how to improve business sales.
- b) The company wants to consult experts on how to adapt the layout of the company for a conservation awareness campaign.
- c) The CEO wants to make a confidential decision by pretending to discuss these problems with a non-existing person.
- d) TGB Ltd. wants to change the design of their product and considers the pros and cons of their decision.
- e) Charlie Chocolate factory asked employees for ideas on how to combine their chocolate products with soccer concepts to celebrate the national soccer championship.

(10)

Answers to activity

Problem solving technique:

- a) Brainstorming√√
- b) Delphi technique $\sqrt{\sqrt{}}$
- c) Empty chair technique $\sqrt{\sqrt{}}$
- d) Forced-field analysis√√
- e) Forced combinations $\sqrt{\sqrt{}}$

(5x2) (10)

4.3 Creative thinking

4.3.1 Creative thinking skills to solve complex business problems

PROBLEM-SOLVING TECHNIQUE	DESCRIPTION	
Delphi	Involves obtaining the opinions of experts without the experts having to meet in person	
Force-field analysis	It examines all the forces for and all the forces against a decision.	
Brainstorming	Promotes creative thinking and creative problem solving by encouraging idea generation without participants criticizing the idea of fellow participants.	
Mind mapping	Is done in the form of a diagrams with the main idea and related ideas are linked to it (Main idea).	
Nominal-group technique	Participants generate ideas to solve a problem.	
SSCAMPER	New ideas are generated as a set of questions are Studied.	
Forced combination	Participants are provided with a list of random words, pictures or objects then create connections between the problem at hand.	
Empty chair	A role play technique talking to an empty chair.	

4.3.2 Benefits/ advantages of creative thinking in the workplace

- Better/Unique/ ideas/solutions is generated.
- Leads to more positive attitudes.
- Improves motivation amongst staff members.
- Have a feeling of great accomplishment.
- Keep up with fast changing technology.
- Stimulates brain function of employees/managers.
- Lead to new inventions.

The emphasis is on "ways", not necessarily advantages



Application and evaluate	Amelianting		
Problem-solving Technique	Impact Positives	Negatives	Application
Force-field Analysis	The various factors supporting and opposing a particular idea can be seen in a visual summary. It can lead to goals that are better designed, and based on evidence.	 It requires the participation of all business units and this is not always possible. It may not result in a full consensus among the group. It is time-consuming which in turn can be expensive. 	It is used to look to all the forces for and against a decision (pros/advantages and cons/disadvantages)
Delphi technique	 Experts give anonymous suggestions so they feel and be more creative. Experts can feed off one another's ideas. 	 Sometimes there will be no consensus between the respondents. The process is time consuming and expensive. 	 Invite a panel of selected experts' to participate in the process. Carefully design the questionnaire and send it to the panel.
Brainstorming	 Stimulates creative thinking. People get ideas from others and build on them. No one is allowed to criticize any suggested ideas. 	 Can be dominated by one strong team member. Shy members don't contribute. 	 Solve problems in a team. Generate new ideas in a group.
Nominal Group technique	 Group members all participate. Votes are anonymous and may be more honest. All the members have an equal say in the final decision. 	 Ideas may not converge and there might not be consensus. The chosen solution will not be always the best one. 	 Divide the group into smaller groups. Identify the problem and make it clear to everybody. Number the possibilities and let everybody vote for the top 3 solutions. And the voting decide on the best solution.
Mind mapping	 Very easy to generate. Stimulates brain. Easy to remember. 	 Quite complicated and too many influences will make it very difficult to find a solution. Some people find mind maps too chaotic and messy. 	 Organize thoughts. Summarize notes. Generate new ideas. Solve problems.
Forced combinatio n	Stimulates creativity.Allows people to really think outside the box.	People involved can feel inhibited by how wild ideas can become.	Generate new ideas in a group.
Empty chair	Clarifies the problemSolutions must be clearly justified.	Limited creativity since only one person's view is really applied.	Make decision on your own.
SCAMPER	 It is easy to use. Stimulates objectivity. Helps to generate different ideas. 	 Can lead to a lot of debate. Time consuming. 	See things differently.



Activity

Read the scenario below and answer the questions that follow:

GIANT MOBILE PHONE LTD (GMP)

Giant Mobile Phone Ltd (GMP) wanted to change software of some of their mobile phones. Employees were requested to suggest new ideas in a large group without working individually. These ideas were used to inspire new thoughts. The management of GMP evaluated the advantages and disadvantages of each idea.

Discuss the advantages of ONE problem-solving technique.

(4)

Answers to the activity Advantages of brainstorming

- Stimulates creative thinking √ in the workplace. √
- People get ideas from others √ and build on them. √
- Brings/Generates more new ideas
- Creates a good team spirit√

Max (4)

AND/OR

Advantages of Force-field analysis

- Employees feel included √ and understood. √
- Employees develop√ and grow with the business.√
- Enables businesses to strengthen the driving forces $\sqrt{\ }$ and weaken the restraining forces. $\sqrt{\ }$

Max (4)

4.5 Ways for businesses to create environment that promote creative thinking/conducive environment for creative thinking.

- Encourage alternative ways of working/doing things.
- Encourage staff to come up with new ideas/opinions/solutions
- Encourage job swops within the organisation/studying how other businesses are doing things.
- Reward creativity by introducing reward schemes for teams/individuals come up with creative.